Scoping Meeting Worksheet
Geoindicator Table

Geologic (ecological) importance, degree of human influence, and management significance of selected geoindicators

Geoindicators Identified in the Ecosystem	How important is the process to the park's ecosystem?	Rank the human impact on the geologic process	Significance to park management
SURFACE WATER			
1. Stream channel morphology	H	M	H
2. Stream sediment storage and load	H	M	H
3. Streamflow	H	L	H
4. Surface water quality	H	H	H
5. Wetlands extent, structure, hydrology	M	M	M
6. Lake levels and salinity			
GROUNDWATER			
7. Groundwater quality	H	M/H	H
8. Groundwater chemistry in the unsaturated zone	H	M/H	H
9. Groundwater level	L	L	L
10. Subsurface temperature regime	L	L	L
CAVES			
11. Karst activity	H	H	H
12. Surface displacement	L	L	L
SOILS			
13. Soil quality	H	L/M*	L
14. Soil and sediment erosion	H	H	H
15. Sediment sequence and composition	H	L	H
HAZARDS			
16. Slope failure (landslides)	L	L	L
17. Seismicity	M	L (n/a)**	L
18. Volcanic unrest			
ARID AND SEMIARID			
19. Desert surface crusts and fissures			
20. Dune formation and reactivation			
21. Dust storm magnitude, duration and frequency			
22. Wind erosion			
ALPINE AND POLAR			
23. Glacier fluctuations			
24. Frozen ground activity			

H – HIGHLY influenced by, or with important utility for
M – MODERATELY influenced by, or has some utility for
L – LOW or no substantial influence on, or utility for

* "Low" ranking is for the uplands; "medium" ranking is for the valley.
** Group decided that in this area, humans do not influence seismicity; hence, the use of n/a is appropriate.